

REFERENCE

- [1] S. Chen, "Sham or shame: Rethinking the China's milk powder scandal from a legal perspective," *J. Risk Res.*, vol. 12, no. 6, pp. 725–747, 2009.
- [2] J. Yang, R. Hauser, and R. H. Goldman, "Taiwan food scandal: The illegal use of phthalates as a clouding agent and their contribution to maternal exposure," *Food Chem. Toxicol.*, vol. 58, pp. 362–368, 2013.
- [3] X. Liu, M. Li, and J. Yu, "Nutrient composition and changes in the milk of captive giant pandas," *Chinese J. Appl. Environ. Biol.*, vol. 14, no. 2, pp. 220–224, 2008.
- [4] R. C. Chandan and A. Kilara, "Role of Milk and Dairy Foods in Nutrition and Health," in *Dairy Processing Quality Assurance*, 2009, pp. 411–428.
- [5] M. Rakotoarisoa and A. Gulati, "Competitiveness and trade potential of India's dairy industry," *Food Policy*, vol. 31, no. 3 SPEC. ISS., pp. 216–227, 2006.
- [6] D. A. Gidrewicz and T. R. Fenton, "A systematic review and meta-analysis of the nutrient content of preterm and term breast milk," *BMC Pediatr.*, vol. 14, p. 216, 2014.
- [7] A. Muhammad and R. L. Kilmer, "The impact of EU export subsidy reductions on U.S. dairy exports," *Agribusiness*, vol. 24, no. 4, pp. 557–574, 2008.
- [8] M. F. Picciano, "Nutrient composition of human milk," *Pediatr. Clin. North Am.*, vol. 48, no. 1, pp. 53–67, 2001.
- [9] L. C. S. Medeiros, P. G. L. Speridião, V. L. Sdepanian, U. Fagundes-Neto, and M. B. Morais, "Nutrient intake and nutritional status of children following a diet free from cow's milk and cow's milk by-products," *J. Pediatr. (Rio. J.)*, vol. 80, no. 5, pp. 363–70, 2004.
- [10] M. Aleixandre, J. Lozano, J. Gutiérrez, I. Sayago, M. J. Fernández, and M. C. Horrillo, "Portable e-nose to classify different kinds of wine," *Sensors Actuators B Chem.*, vol. 131, no. 1, pp. 71–76, Apr. 2008.
- [11] A. Leone, C. Distant, N. Ancona, K. C. Persaud, E. Stella, and P. Siciliano, "A powerful method for feature extraction and compression of electronic nose responses," *Sensors Actuators, B Chem.*, vol. 105, no. 2, pp. 378–392, 2005.
- [12] D. Ibrahim, *PIC Microcontroller Projects in C*. 2014.
- [13] E. Zordan and F. Amirouche, "Design and analysis of a double superimposed chamber valveless MEMS micropump," *Proc. Inst. Mech. Eng. H.*, vol. 221, no. 2, pp. 143–151, 2007.
- [14] R. J. K. Jacob, "Input Devices and Techniques," in *The Computer Science and Engineering Handbook*, 1996, pp. 1494–1511.
- [15] D. Ramanathan, R. Roth, and R. Gupta, "Interfacing hardware and software using C++ class libraries," *Proc. 2000 Int. Conf. Comput. Des.*, 2000.
- [16] A. Loutfi, S. Coradeschi, G. K. Mani, P. Shankar, and J. B. B. Rayappan, "Electronic noses for food quality: A review," *J. Food Eng.*, vol. 144, pp. 103–111, Jan. 2015.

- [17] F. Röck, N. Barsan, and U. Weimar, "Electronic Nose: Current Status and Future Trends," *Chem. Rev.*, p. Published on the web, January 25 2008 DOI 10.1021/, 2008.
- [18] A. Titus and L. X. Bin, "Secondary Development of Solid works for Standard Components Based on Database," *Int. J. Sci. Res.*, vol. 2, no. 10, pp. 162–164, 2013.
- [19] S. M. Scott, D. James, and Z. Ali, "Data analysis for electronic nose systems," *Microchim. Acta*, vol. 156, no. 3–4, pp. 183–207, 2007.
- [20] H.-Y. Li, Y.-J. Yeh, and W.-J. Hwang, "Fast kNN classification based on softcore CPU and reconfigurable hardware," *Intell. Autom. Soft Comput.*, vol. 17, no. 4, pp. 431–446, 2011.
- [21] A. Hyvärinen, "Fast and robust fixed-point algorithms for independent component analysis," *IEEE Trans. Neural Networks*, vol. 10, no. 3, pp. 626–634, 1999.
- [22] P. Teikari, R. P. Najjar, H. Malkki, K. Knoblauch, D. Dumortier, C. Gronfier, and H. M. Cooper, "An inexpensive Arduino-based LED stimulator system for vision research.," *J. Neurosci. Methods*, vol. 211, no. 2, pp. 227–36, Nov. 2012.
- [23] V. Kodogiannis, I. Petrounias, and J. N. Lygouras, "Intelligent classification using adaptive fuzzy logic systems," in *2008 4th International IEEE Conference Intelligent Systems*, no. 4, 2008, pp. 9-8-9–13.
- [24] M. S. Najib, M. U. Ahmad, P. Funk, M. N. Taib, and N. A. M. Ali, "Agarwood classification: A case-based reasoning approach based on E-nose," in *Proceedings - 2012 IEEE 8th International Colloquium on Signal Processing and Its Applications, CSPA 2012*, 2012, pp. 120–126.
- [25] E. A. Wan, "Neural network classification: A Bayesian interpretation," *IEEE Trans. Neural Networks*, vol. 1, no. 4, pp. 303–305, 1990.
- [26] P. Badger and D. Jolliffe, "Arduino Programming Notebook," *Digit. PDF*, pp. 1–36, 2008.
- [27] M. Eisenberg, "Output devices, computation, and the future of mathematical crafts," *Int. J. Comput. Math. Learn.*, vol. 7, no. 1, pp. 1–44, 2002.
- [28] H. Faugel and V. Bobkov, "Open source hard- and software: Using Arduino boards to keep old hardware running," *Fusion Eng. Des.*, vol. 88, no. 6–8, pp. 1276–1279, Oct. 2013.
- [29] F. Di Francesco, M. Falcitelli, L. Marano, and G. Pioggia, "A radially symmetric measurement chamber for electronic noses," *Sensors Actuators B Chem.*, vol. 105, no. 2, pp. 295–303, Mar. 2005.
- [30] B. MacVicar, S. Dilling, and J. Lacey, "Multi-instrument turbulence toolbox (MITT): Open-source MATLAB algorithms for the analysis of high-frequency flow velocity time series datasets," *Comput. Geosci.*, vol. 73, pp. 88–98, Dec. 2014.
- [31] D. J. Strike, M. G. H. Meijerink, and M. Koudelka-Hep, "Electronic noses - A mini-review," *Fresenius' Journal of Analytical Chemistry*, vol. 364, pp. 499–505, 1999.
- [32] M. T. Dhotre and J. B. Joshi, "Design of a gas distributor: Three-dimensional CFD simulation of a coupled system consisting of a gas chamber and a bubble column," *Chem. Eng. J.*, vol. 125, no. 3, pp. 149–163, 2007.
- [33] L. Christen, C. T. Lai, B. Hartmann, P. E. Hartmann, and D. T. Geddes, "The effect of UV-C

- pasteurization on bacteriostatic properties and immunological proteins of donor human milk," *PLoS One*, vol. 8, no. 12, 2013.
- [34] T. Data, "MQ-4 Semiconductor Sensor for Natural Gas," *Structure*, pp. 2–4.
 - [35] S. Ferdoush and X. Li, "Wireless Sensor Network System Design Using Raspberry Pi and Arduino for Environmental Monitoring Applications," *Procedia Comput. Sci.*, vol. 34, pp. 103–110, 2014.
 - [36] M. Peris and L. Escuder-Gilabert, "A 21st century technique for food control: electronic noses.," *Anal. Chim. Acta*, vol. 638, no. 1, pp. 1–15, Apr. 2009.
 - [37] D. Luo, H. G. Hosseini, and J. R. Stewart, "Application of ANN with extracted parameters from an electronic nose in cigarette brand identification," *Sensors Actuators B Chem.*, vol. 99, no. 2–3, pp. 253–257, May 2004.
 - [38] E.-L. Kalman, A. Löfvendahl, F. Winquist, and I. Lundström, "Classification of complex gas mixtures from automotive leather using an electronic nose," *Anal. Chim. Acta*, vol. 403, no. 1–2, pp. 31–38, Jan. 2000.
 - [39] Z. Zheng and X. Lin, "Study on Application of Medical Diagnosis by Electronic Nose," *World Sci. Technol.*, vol. 14, no. 6, pp. 2115–2119, Dec. 2012.
 - [40] M. Mirasoli, R. Gotti, M. Di Fusco, A. Leoni, C. Colliva, and A. Roda, "Electronic nose and chiral-capillary electrophoresis in evaluation of the quality changes in commercial green tea leaves during a long-term storage.," *Talanta*, vol. 129, pp. 32–8, Nov. 2014.
 - [41] A. D. Wilson, "Review of Electronic-nose Technologies and Algorithms to Detect Hazardous Chemicals in the Environment," *Procedia Technol.*, vol. 1, pp. 453–463, Jan. 2012.
 - [42] A. Ruiz and Y. W. Price, "GUI testing made easy," in *Proceedings - Testing: Academic and Industrial Conference Practice and Research Techniques, TAIC PART 2008*, 2008, pp. 99–103.
 - [43] C. Bambang Dwi Kuncoro, N. Hayati Saad Ahmed Jaffar, C. Yee Low, and S. Kasolang, "Wireless e-Nose Sensor Node: State of the Art," *Procedia Eng.*, vol. 41, no. Iris, pp. 1405–1411, 2012.
 - [44] A. . Wilson and M. Baietto, "Applications and advances in electronic-nose technologies.," *Sensors*, vol. 9, no. 7, pp. 5099–5148, 2009.
 - [45] I. Hernández, W. P. Gillin, and M. Somerton, "Spectroscopic study of Mq3 (M=Al, Ga, In, q=8-hydroxyquinolate) at high pressure," *J. Lumin.*, vol. 129, no. 12, pp. 1835–1839, 2009.